In the Claims

- 1. (Currently amended) A method for controlling the power of a motor, comprising the steps of:
 - (a) applying power to a spindle motor to engage a start up sequence;
 - (b) monitoring the amount of at least one of a current and a voltage applied to the spindle motor;
 - (c) obtaining a control voltage proportional to one of the applied current and the applied voltage; and
 - (d) removing the power <u>from the spindle motor</u> if the control voltage exceeds a predetermined voltage threshold.

2. (Canceled)

- 3. (Currently amended) The method of claim 21 wherein the predetermined voltage threshold corresponds to a preprogrammed start-up disc profile.
- 4. (Original) The method of claim wherein step (c) further comprises obtaining the control voltage by integrating a voltage across a current sensing resistor.
- 5. (Original) The method of claim 1 wherein step (a) further comprises the steps of:
 - (a)(i) enabling the calibrating of the predetermined voltage threshold.
- 6. (Previously amended) The method of claim 5, wherein step (a)(i) further comprises the steps of:
- (a)(ii) applying a signal from a digital-to-analog converter (DAC) to the input of a comparator;
- (a)(iii) applying a finite specific reference signal to simulate the monitoring of one of the current and voltage applied to the spindle motor; and

(a)(iv) adjusting the signal from the DAC to compensate for offsets of the circuitry.

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- 7. (Previously amended) The method of claim 1 further comprising the step of:
 - (e) waiting a fixed period of time;
 - (f) reapplying power to the motor; and
 - (g) repeating steps (b) (g)
- 8. (Currently amended) A method for controlling the <u>a</u> current drawn <u>by a spindle</u> motor from a power supply, the power supply intended to provide power to the <u>spindle motor in a computer system by a spindle motor</u>, comprising the step of decoupling the power supply from the spindle motor if a control voltage exceeds a predetermined voltage threshold.

Claims 9-12 were previously canceled.

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- 13. (Currently amended) A data storage device, comprising:

 at least one spindle motor;

 a power supply electrically couple<u>abled</u> to the spindle motor; and
 a spindle motor controller, wherein the spindle motor controller <u>adapted to</u>
 measures <u>power</u> and, if a threshold value is at least met, decouples <u>the power</u> to
 the spindle motor.
- 14. (Original) The data storage device of claim 13 wherein the spindle motor controller further comprises:

 a driver control function programmed into the motor controller which disables a spindle motor driver for a fixed period of time.



15. (Previously amended) The data storage device of claim 13 wherein the spindle motor controller decouples power when a control voltage, proportional to at least one of a motor current and motor voltage, is at least equal to a threshold voltage.

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16. (Currently amended) The datastorage device of claim 14 wherein the driver control function is enabled when a signal proportional to a current applied to the spindle motor exceeds a <u>the predetermined</u> threshold <u>value</u>.



17. (Previously amended) The data storage device of claim 16 wherein the power supply is coupled to the spindle motor for at least one of a start-up sequence and a run sequence.

Claims 18-30 were previously canceled.

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- 31. (New) A method comprising the step of removing power from a motor when a reference value is at least matched to reduce current spikes on a power supply.
- 32. (New) The method of claim 11 wherein the current spikes are high frequency.
- 33. (New) The method of claim 31 wherein the motor is a spindle motor.